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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/014,506	12/14/2001	Masayuki Murakami	Q66577	Q66577 3596	
75	90 08/25/2005		EXAM	EXAMINER	
SUGHRUE, MION, ZINN,			LAVIN, CHRISTOPHER L		
MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W.			ART UNIT	PAPER NUMBER	
	C 20037-3202		2621		
			DATE MAILED: 08/25/2003	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)	
Office Action Summary		10/014,50	10/014,506 MURAKAMI, MASAY		/
		Examiner		Art Unit	
		Christophe	er L. Lavin	2621	
Period fo	- The MAILING DATE of this commu r Reply	nication appears on the	cover sheet with the o	correspondence address	
THE N - Exten after 3 - If the - If NO - Failur Any re	DRTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN sions of time may be available under the provision SIX (6) MONTHS from the mailing date of this com period for reply specified above is less than thirty (period for reply is specified above, the maximum s e to reply within the set or extended period for repl eply received by the Office later than three months indicate the provided by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no even munication. 30) days, a reply within the state statutory period will apply and wi y will, by statute, cause the apply	ent, however, may a reply be tinutery minimum of thirty (30) day Il expire SIX (6) MONTHS from ication to become ABANDONE	nely filed swill be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status					
1)⊠	Responsive to communication(s) fil	ed on <u>15 June 2005</u> .			
2a)⊠	This action is FINAL .	2b) ☐ This action is n	on-final.		
• —	Since this application is in condition closed in accordance with the practice.	•	•		
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) <u>1-20</u> is/are pending in the 4a) Of the above claim(s) is/acccccccccccccccccccccccccccccccccccc	are withdrawn from co			
Applicati	on Papers				
10)⊠	The specification is objected to by the drawing(s) filed on 14 December Applicant may not request that any objected Replacement drawing sheet(s) including the oath or declaration is objected.	er 2001 is/are: a) \square arection to the drawing(s) by the correction is require	e held in abeyance. Se ed if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).	
Priority u	ınder 35 U.S.C. § 119				
a)[Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 3. Copies of the certified copies application from the Internations at the attached detailed Office actions.	y documents have bee y documents have bee s of the priority docume onal Bureau (PCT Rul	n received. n received in Applicat ents have been receiv e 17.2(a)).	ion No ed in this National Stage	
Attachmen	• •				
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (nation Disclosure Statement(s) (PTO-1449 o r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:		

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. Claims 1 – 16, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takeo (6,075,877) in view of Hiyama (6,269,379).

Please see the previous office action for the reasons of rejection of claims 1 - 12.

In regards to claim 13, The image data handling method of claim 1, wherein the combination information identifies, in the low-energy image data set and the highenergy data set, image data sets used to generate the energy subtraction data set (Hiyama: Figure 2; col. 6, line 66 - col. 7, line 16: As previously stated a relationship between the low, high and subtraction data set is established. Based on Figure 2 this relationship would involve having the same examination ID (each group comprising of high low and subtraction data sets), item 71, and then region and position codes, items 76 and 77, would identify the images as high, low, or subtraction. This combination data would identify the image data sets used to generate the energy subtraction image. As the combination data in each high and low energy data set will identify which group it belongs to, then by looking into the group the image data sets used for generating the subtraction image can be identified using the region and position codes. As it is already known that a high and a low energy data set are required to perform the subtraction. So by identifying the group the combination data is identifying the image data sets used to create the subtraction image.).

In regards to claim 14, The image data handling method of claim 2, wherein the combination information identifies, in the energy subtraction image data set, image data

Application/Control Number: 10/014,506

Art Unit: 2621

sets used to generate the energy subtraction image data set (The same logic applied to claim 13 applies to this claim as well.).

In regards to claim 15, The image data handling method of claim 1, wherein the combination information identifies, in the low-energy image data set and the high-energy data set, image data sets used to generate the energy subtraction data set (The same logic applied to claim 13 applies to this claim as well.).

In regards to claim 16, The image data handling method of claim 2, wherein the combination information identifies, in the energy subtraction image data set, image data sets used to generate the energy subtraction image data set (The same logic applied to claim 13 applies to this claim as well.).

In regards to claims 19 and 20, the applicant should be made aware that simply claiming an automatic version of a manual task does not make something patentable as shown in re VENNER AND BOWSER, 120 USPQ 192 (CCPA 1958) where it was shown that automating a manual task was not patentable.

Hiyama teaches (col. 5, lines 44 - 47) that a user enters at least some of the combination information in manually.

2. Claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takeo in view of Hiyama as applied to claims 1 and 4 respectively above, and further in view of Cabrera (6,029,160).

In regards to claims 17 and 18, wherein the combination information comprises a first record for the low-energy image data set, a second record for the high-energy image data set and a third record for the energy subtraction image data set (Each

Art Unit: 2621

image is given its own record), and where each record comprises a data set identification number uniquely identifying the respective image data sets (Hiyama: Figure 2, item 72), a common source identifier that identifies the respective image data set as belonging to a common group (Hiyama: figure 2, item 71), a file type identifier indicating that the respective image data set is a low-energy image data set, a high energy image data set, a soft-tissue image data set, or a bone image data set (Hiyama: Figure 2, items 76 and 77: The region and position codes are used to identify the image. Thus labeling the image as high, low, or a resulting image would be required.), and an image filename indicating the location on a storage device for each respective data set (Hiyama: Figure 2; col. 6, line 66 – col. 7, line 16: The file structure Hiyama discloses for images has to have some kind of means of identification, i.e., a file name. Hiyama does not specicically state that a file name is stored, although this is bordering on inherency a secondary teaching will be provided to show that media files can be used using file names.).

Cabrera discloses that a file name can be used to identify a media file, that file name is used to indicate the location on a storage device of that media file.

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to use file names (as taught by Cabrera) in the apparatus disclosed by Takeo (as modified by Hiyama). File names allow for easy location of images in a file structure. Thus by using file names Takeo will be able to better organize the image files.

Application/Control Number: 10/014,506 Page 5

Art Unit: 2621

Response to Arguments

3. Applicant's arguments filed 06/15/05 have been fully considered but they are not persuasive.

4. Applicant's primary argument in the remarks is that the examiner inaccurately claimed that links between files was inherent.

If the examiner had been claiming inherency the rejection would have been presented as a 102. However, the examiner was not claiming the concept was inherent, in fact the examiner pointed out that Takeo was silent on the concept and provided a 103 reference to provide a teaching of providing links between image files. Although ineloquently done the examiner was trying to establish that there must be some kind of relationship between the files. As the applicant has pointed out that relationship, as Takeo is silent on the issue, could be provided by an operator or a global data set. This is why the examiner rejected the claims under 103. The examiner provided motivation to provide these links "By linking the files together and storing attribute information about the files the method disclosed by Takeo will be able to handle multiple groupings of files and store the results, along with the associated data."

To reiterate Hiyama teaches (figure 2) that an image data set can be created that groups images together and identifies the image contents; combined with the subtraction of high and low energy images this is the basic concept the applicant is trying to claim.

5. The second argument in the remarks is that the examiner was incorrect in stating the links "go both ways".

Although poorly written the examiner is correct in asserting that by linking the initial images to the subtraction image, the subtraction image is also linked to the initial images. Thus the link goes both ways. The link as shown in other parts of this action is the group identification code. By establishing this link the remaining images in the group are quickly indefinable and thus link to each other.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher L. Lavin whose telephone number is 571-272-7392. The examiner can normally be reached on M - F (8:30 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mancuso Joseph can be reached on (571) 272-7695. The fax phone

Application/Control Number: 10/014,506

Art Unit: 2621

872-9306.

Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Lavin

BRIAN WERNER
PRIMARY EXAMINER

Page 7